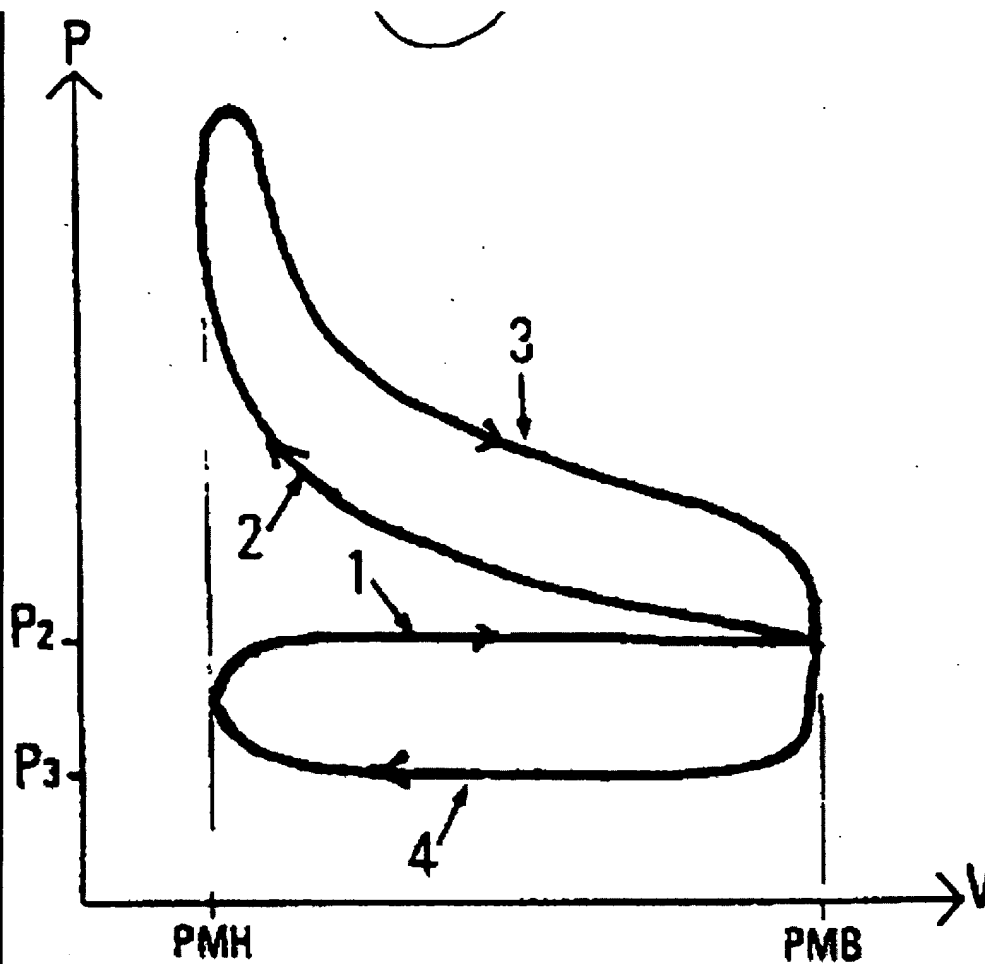


AN: PAT 2000-118815  
TI: Control of operation of turbo-charged IC, by controlling timing of opening inlet valves before exhaust valves are fully closed  
PN: **FR2781011-A1**  
PD: 14.01.2000  
AB: NOVELTY - The method of control, of the operation of the direct injection spark ignition engine, is effected when the pressure of air in the inlet chamber (P2) is greater than the pressure in the exhaust chamber (P3). It is achieved by the overlap of the valves, by opening the inlet valves before the outlet valves close by allowing the start of the injection when the exhaust valves are almost closed, in order to ensure that the fuel does not short cut directly to the exhaust.; USE - Used for turbo-charged internal combustion engines. ADVANTAGE - It reduces the rate of fuel residuals in the exhaust and simultaneously increases the rate of the filling cycle of the cylinder. DESCRIPTION OF DRAWING(S) - The figure shows the pressure-volume diagram of the cylinder inlet pressure P2 exhaust pressure P3  
PA: (INSF ) INST FRANCAIS DU PETROLE;  
IN: LEDUC P; MONNIER G;  
FA: **FR2781011-A1** 14.01.2000;  
CO: FR;  
IC: F02B-037/00; F02D-023/02; F02D-037/00;  
DC: Q52;  
FN: 2000118815.gif  
PR: FR0009021 13.07.1998;  
FP: 14.01.2000  
UP: 13.03.2000

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